

Applicant : Brian Causton et al.
Serial No. : 09/773,962
Filed : February 1, 2001
Page : 2 of 10

Attorney's Docket No.: 08935-238001 / M-4952



Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Previously presented) A battery, comprising:

a housing;

an anode in the housing;

a cathode in the housing; and

a separator between the cathode and the anode;

the housing having a surface adjacent to the cathode, the surface of the housing defining a plurality of openings arranged to provide gas to a surface of the cathode, which gas, upon first contacting the surface of the cathode, forms first fluxes of gas that overlap on the surface of the cathode to form a generally non-circular second flux of gas on the surface of the cathode,
wherein the openings are not louvers.

2. (Previously presented) The battery of claim 1, wherein the second flux of gas is generally oval.

3. (Previously presented) The battery of claim 1, wherein the second flux of gas is generally curvilinear.

4. (Cancelled)

5. (Previously presented) The battery of claim 1, wherein the openings are circular.

6. (Previously presented) The battery of claim 1, wherein the openings are elongated.
7. (Cancelled)
8. (Previously presented) The battery of claim 1, wherein the openings are generally straight.
9. (Previously presented) The battery of claim 1, wherein the openings are curved.
10. (Previously presented) The battery of claim 1, wherein the openings are symmetrically positioned in the housing.
11. (Original) The battery of claim 1, wherein the battery is a metal-air battery.
12. (Original) The battery of claim 1, wherein the battery is a button cell.
13. (Original) The battery of claim 1, wherein the battery is a prismatic battery.
- 14-40. (Cancelled)
41. (Withdrawn) A metal-air battery capable of generating a Global System for Mobile pulse voltage greater than about 1.0 volt in less than about 30 seconds.
42. (Withdrawn) The metal-air battery of claim 41, capable of generating the pulse voltage in less than 20 seconds.
43. (Withdrawn) The metal-air battery of claim 41, capable of generating the pulse voltage in less than 10 seconds.

44. (Withdrawn) The metal-air battery of claim 41, capable of generating the pulse voltage in less than 5 seconds.

45. (Withdrawn) The metal-air battery of claim 41, capable of generating the pulse voltage essentially instantaneously.

46. (Withdrawn) The metal-air battery of claim 41, wherein battery comprises a housing defining an elongated opening that is not a louver.

47. (Withdrawn) A metal-air battery capable of undergoing a Global System for Mobile 900 simulation without dropping below about 1.0 volt for at least about 10 hours.

48. (Withdrawn) The battery of claim 47, capable of undergoing the simulation for at least about 12 hours.

49. (Withdrawn) The battery of claim 47, capable of undergoing the simulation for at least about 14 hours.

50. (Withdrawn) The battery of claim 47, wherein battery comprises a housing defining an elongated opening that is not a louver.

51. (Previously presented) The battery of claim 1, wherein the second flux is elongated.

52. (Original) The battery of claim 1, wherein the battery is a cylindrical battery.

53. (Cancelled)

54. (Cancelled)

55. (Withdrawn) A battery cartridge, comprising:
a casing;
a battery in the casing, the battery comprising an elongated opening; and
a slide moveably engaged with the casing, the slide comprising an elongated opening alignable with the elongated opening of the battery.

56. (Withdrawn) The cartridge of claim 55, wherein
the slide is moveable between a first position in which the opening of the slide is aligned with the opening of battery, and a second position in which the opening of the slide is misaligned with the opening of battery.

57. (Withdrawn) The cartridge of claim 56, wherein
the slide is further moveable to a third position in which the opening of the slide is partially aligned with the opening of the battery.

58. (Withdrawn) The cartridge of claim 55, wherein the casing has a prismatic shape.

59. (Withdrawn) The cartridge of claim 58, wherein the casing has the shape of a rectangular prism.

60. (Withdrawn) The cartridge of claim 55, wherein the battery has a rectangular cross section.

61. (Withdrawn) The cartridge of claim 55, wherein the battery has a triangular cross section.

62. (Cancelled)

63. (Withdrawn) An electrochemical power source, comprising:

a metal-air battery system including an elongated opening and air control member arranged for relative sliding motion to variably cover the opening for controlling exposure to an oxygen-containing environment.

64. (Withdrawn) A battery cartridge, comprising:

a casing;

a battery in the casing, the battery comprising:

a cathode having a first side and a second side,

a first layer disposed adjacent to the first side of the cathode, the first layer being electrically-insulating;

an anode disposed adjacent to the first layer; and

a second layer disposed adjacent to the second side of the cathode, the second layer being air-permeable and liquid-impermeable and defining an exterior surface of the battery; and

a slide moveably engaged with the casing, the slide defining an elongated opening.

65. (Withdrawn) The battery of claim 64, wherein the battery is a metal-air battery.

66. (Withdrawn) The battery of claim 64, wherein the cathode has a substantially rectangular cross section.

67. (Withdrawn) The battery of claim 64, wherein the cathode has a substantially square cross section.

68. (Previously presented) The battery of claim 8, wherein the openings are rectangular.

69-74. (Cancelled)